

ACCESSION NR: AP4024186

S/0294/64/000/001/0029/0031

AUTHOR: Amonenko, V. M.; Yugov, P. N.; Gumenyuk, V. S.

TITLE: Investigation of thermal expansion of tungsten, molybdenum, tantalum, niobium, and zirconium at high temperatures.

SOURCE: Teplofizika vysokikh temperatur, no. 1, 1964, 29-31

TOPIC TAGS: tungsten, molybdenum, tantalum, niobium, zirconium, thermal expansion, high temperature thermal expansion, relative elongation, thermal expansion coefficient, zirconium allotropic transformation

ABSTRACT: The relative elongation of the metals was measured with an improved contact-making vacuum dilatometer (V. S. Gumenyuk, Pribory i tekhnika eksperimenta, no. 4, 1961) used in conjunction with an optical pyrometer (800-2000°C range) or a Pt-PtRh thermocouple (200-1200°C). The length measurements were accurate to $\pm 1\mu$. (1 per cent at high and 3 per cent at low temperatures), and the temperature was uniform within 5°C. A tungsten resistance furnace was used to heat the tested metals (zirconium to 1450°C and the others

Card 1/12

ACCESSION NR: AP4024186

to 2000C). Empirical formulas are derived to fit the temperature vs. relative elongation curves obtained, differentiation of which yields the temperature variation of the linear expansion coefficients. The kink in the curve for zirconium (beginning with 865C) is due to its allotropic transformation. Orig. art. has: 3 figures and 5 formulas.

ASSOCIATION: Fizko-tehnicheskiy institut AN UkrSSR (Physicotechnical Institute, AN UkrSSR)

SUBMITTED: 27May63

DATE ACQ: 16Apr64

ENCL: 01

SUB CODE: PH, ML

NO REF SOV: 004

OTHER: 003

Card

2/47

Temperature dependence...

27961
S/185/61/006/004/003/015
D274/D303

ASSOCIATION: Fizyko-tehnichnyy instytut AN USSR, m. Kharkiv
(Physicotechnical Institute AS UkrSSR, Khar'kov)

SUBMITTED: September 27, 1960

Card 3/3

5.2400
5.2100(B)

S/078/60/005/06/29/030
B004/B014

AUTHORS: Grinberg, A. A., V'yugina, A. I.

TITLE: Interaction Between Nitric Acid and Magnesium

PERIODICAL: Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 6,
pp. 1389 - 1390

TEXT: The present paper is intended to check a paper by C. Montemartini (Ref. 1) concerning the composition of gases formed by interaction between HNO_3 and Mg. Pure MA1 (MA1) magnesium (analysis is given) was boiled with chemically pure HNO_3 in a vessel with a reflux condenser. The gases were collected under a saturated NaCl solution, and analyzed for NO , N_2O , O_2 , and H_2 in a BTU(VTI) apparatus. The free HNO_3 and NH_3 was also determined in the solution. Hydroxylamine could not be detected. Experimental results are given in Figs. 1 and 2. The quantity of released H_2 decreases with increasing $\text{HNO}_3 : \text{Mg}$ ratio. The largest quantity of H_2 is

Card 1/2

Interaction Between Nitric Acid and Magnesium S/078/60/005/06/29/030
B004/B014

160 g per 1 g of Mg. These gases are explosive because of their high H₂ contents (6 - 32%). Their nitrogen contents were always lower than 75%. When the concentration of HNO₃ varied between 0.1 and 3 N, and the HNO₃ : Mg ratio between 1 : 1 and 10 : 1, a fraction of 0.4 molecule of HNO₃ was always consumed for 1 Mg atom to form the individual reaction products. Though the reaction kinetics was not studied, the authors believe that the reaction products containing more than one nitrogen atom are formed by secondary processes, such as NH₄NO₂ → N₂ + 2H₂O. The authors refer to papers by D. I. Mendeleev (Ref. 2), B. N. Menshutkin (Ref. 3), and B. V. Nekrasov (Ref. 4). There are 2 figures and 7 references: 4 Soviet, 1 British, and 1 Italian.

SUBMITTED: December 15, 1958

Card 2/2

V'YUGINA, K.

Lenin talked with us. Nabotnitsa 35 no.7:12 J1 '57. (LMA 19-8)
(Lenin, Vladiimir Il'ich, 1870-1924)

V YUGOV, G.I.

KERKIN, A.A.; SHILINIKOV, V.I.; V'YUGOV, G.I.

Dust collector for pneumatic percussion boring. Isv. AM Kazakh,
SSR. Ser. gor. del'a, met., stroi. i stroimat. no.2:115-120 '57.
(Rock drills--Attachments) (MLRA 10:9)

V'YUGOV, P.M. [V'yuhov, P.M.]; GULIYUK, V.S. [Guliyuk, V.S.]

High-temperature ultrasonic interferometer Ukr. fiz. zhur. 9 no.7:
766-768 Jl '64. (HHA 17:10)

1. Fiziko-tehnicheskiy institut AN UkrSSR, Khar'kov.

VYUHOV, P.M.

38842

17.12.00

S/185/62/007/006/005/014
D407/D301

21.0000

AUTHORS: V'yuhov, P.M., Dementiy, V. S. and Poryatuy, V. S.

TITLE: A flat multiwire neutron counter

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 6, 1962,
618-621

TEXT: A flat multiwire neutron counter is described. The temperature dependence of its efficiency is investigated in the range of 10 - 100°C. The counter is cylindrical (height 32 mm, diameter 112 mm); it is made of copper sheets and has 3 wires. The electric field between the wires is smoothed out by means of copper-foil screens. It was found that the screens improve the efficiency of the counter. The neutron source was a Ra + Be preparation of activity $4.8 \cdot 10^5$ neutrons/second. The counter was filled with enriched $B^{10}F_3$ -gas at a working pressure of 220 mm Hg. The characteristic of the counter has a plateau length of approximately 150 V.

Card 1/2

A flat multiwire ...

S/185/62/007/006/005/014
D407/D301

The counter is stable in operation at voltages ranging from -4 to -12 volt. The counter is not sensitive to Co⁶⁰ gamma-radiation of 4 mcurie at a distance of 20 cm; it is in operation since 1956 without having been refilled with gas. In order to determine the temperature dependence, the counter was placed in an aluminum sphere, filled with water; the temperature of the water was gradually increased from 10 to 100°C. It was found that the counting rate is constant over a temperature range of 10 to 60°C; then it decreases (to about 50% at 100°C). The decrease in the counting rate may be due to the penetration of gas impurities into the enriched gas. In order to make the operation of the counter temperature-independent over a wider interval, it is necessary to clean the body of the counter at higher temperatures and continuous evacuation of the gas. There are 6 figures and 1 table.

ASSOCIATION: Fizyko-tehnichnyy instytut AN UkrRSR, Kharkiv (Physical-Technical Institute of the AS UkrRSR, Kharkiv)

SUBMITTED: February 5, 1962

Card 2/2

21.6000

39150
S/120/62/000/003/012/048
E032/E114

AUTHORS: V'yugov, P.N., Domentiy, V.S., Kalinichenko, S.S.,
and Tsybul'skiy, V.V.

TITLE: Organic crystals as neutron detectors

PERIODICAL: Pribory i tekhnika eksperimenta, no.3, 1962, 65-66

TEXT: The authors have investigated stilbene, naphthalene and "plastics I and II" produced at the Khar'kovskiy nauchno-issledovatel'skiy institut monokristallov (Khar'kov Scientific Research Institute for Single Crystals). The latter two materials were of the same composition, namely, polystyrene + p-terphenyl + POPOP, but were prepared in different ways. A Po + Be neutron source was employed (2.5×10^5 neutron/sec) with the simulated background produced by a $6.17 \mu\text{C}$ Co⁶⁰ source. A block diagram of the apparatus is shown in Fig.1. After integration across the RC chains, the signal was fed into a linear amplifier. Pulses corresponding to recoil protons decay relatively slowly and give rise to large amplitude pulses on integration across the RC circuits. On the other hand, pulses with shorter

Card 1/1 2

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v

Organic crystals as neutron detectors S/120/62/000/003/012/048
 E032/E114

decays give rise to much smaller integrated pulses. Comparison with the circuit put forward by R. Owen (Nucleonics, v.17, no.9, 1959, 92) shows that the present arrangement is capable of operating with larger γ -ray backgrounds (up to 13 μ r/sec). Neutron detection efficiencies between 3.7 and 7.5 were obtained with optimum RC values between 100 and 360 nanosec. There are 2 figures and 2 tables.

ASSOCIATION: Fiziko-tehnicheskiy institut AN USSR
(Physicotechnical Institute AS Ukr.SSR)

SUBMITTED: September 23, 1961

Card 2/2

V'YUGOV, P.N.; GONCHAROV, K.S.; DEMENTIY, V.S.; MANDRICHENKO, A.M.

Attenuation of γ -radiation by concrete and by certain rocks.
Atom. energ. 10 no.1:76-79 Ja '61.
(MIRA 13:12)
(Gamma rays)

V'YUGOV, P. N., GUMENYUK, A. S., and AMONENKO, V. M.

"Investigation of thermal expansion of tungsten, molybdenum, tantalum, niobium, and zirconium at high temperatures"

Seminar on production methods, physical properties, and electron structure of refractory metals, compounds, and alloys, organized by the Institute of Powder Metallurgy and Special Alloys AS Ukr SSR, Kiev, 25-29 April 1963. (Teplovizika vysokikh temperatur, No. 1, 1963, p. 156)

VILL'YAMS, A.P.; V'YUGOV, P.N. [V'iuhov, P.M.]; LEONTOVICH, A.K.
[Leontovich, A.K.]

Amplitude analyzer with a single channel. Ukr. fiz. zhur. 5
no. 5:666-671 S-0 '60. (MIRA 14:4)

1. Fiziko-tehnicheskiy institut AN USSR.
(Pulse height analyzers)

V'YUGOV, P.N. [V'yuhov, P.M.]; DEMENTIY, V.S.

Temperature dependence of boron neutron counters. Ukr. fiz.
zhur. 6 no.4:468-471 Jl-Ag '61. (MIRA 14:9)

1. Fiziko-tehnicheskiy institut AN USSR, g. Khar'kov.
(Nuclear counters)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3

V'YUGOVA, G. Ya.; CHESNOKOV, Ya. I.

Similitude method used in the analysis of the process of fuel bed
combustion. Trudy IGI 11:133-138 '59. (MIRA 13:6)
(Coal gasification)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3"

GEFTER, A.I., prof., MATUSOVA, A.P., kand.med.nauk, BELOUSOV, S.S., V'YUKHIN, L.T.

Technic of direct ballistocardiography; description of a model of an
electromagnetic ballistocardiographic recorder. Terap.arkh. 30
no.6:81-84 Je '58
(MIRA 11:7)

I. Iz kafadry fakul'tetskoy ternpli (zav. - prof. A.I. Gefter)
Ger'kovskogo meditsinskogo instituta imeni S.M. Kirova.
(BALLISTOCARDIOGRAPHY, appar. & instruments,
electromagnetic unit (Rus))

V'YUKHINA, A. S.

7N/5
732.08
.V9

Ekonomicheskiye voprosy kompleksnogo ispol'zovaniya Ural'-skikh mednykh rud Economic problems in complete utilization of Ural copper ore, by A. S. V'yukhina and Kokosov, N. M. Sverdlovsk, 1957.

48 p. graphs, tables.

At head of title: Akademiya Nauk SSSR. Ural'skiy Filial, Sverdlovsk. Otdel Ekonomicheskikh Issledovaniy.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3

YANUS, R. I.; SHUR, Ya. S.; DRUZHININ, V.V. & VYUCHINA

Accommodation of the Magnetic Permeability of Magnetite

An SSSR (Physics Series) 11, 695, 1947

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3"

V'YUKHINA, A. M.

Earth/Phys

Magnetite

Magnetic Permeability

Nov/Dec 1947

"Accommodation of the Magnetic Permeability of Magnetite," R. I. Yarus,
Ya. S. Shar, V. V. Drushkin, A. M. V'yukhina, Ural State U niv
A. N. Gor'kiy, 11 pp

"Izv Akad Nauk SSSR, Ser Fiz" Vol 17, No 6

It was established experimentally that some varieties of magnetites when broken down into fine powder exhibit in very sharp form capacity for accommodation and disaccommodation of magnetic permeability. If the magnetite is subjected to magnetic reversal several times after lying for some time outside accommodating influences, the permeability increases noticeably. If it is then kept outside said accommodating influences, however, it again gradually returns to former condition.

PA 57776

<p><i>Vyugovka</i></p> <p style="text-align: center;"><i>G.M.</i></p> <p>TABLE I. BOOK REFERENCES</p> <p>207/5732</p> <p>Andreeva, N.N., <i>Doklady Akademii Nauk SSSR</i>, 1956, No. 11, p. 221.</p> <p>Publication 1. <i>Zhurnal Voprosov (Fuel Combustion and Gasification) Moscow</i>, Izd. Akad. Nauk SSSR, 1955, Vol. 12, Part 1, p. 221.</p> <p>Issued in Moscow, 1955, 221 p.</p> <p>1,000 copies printed.</p> <p>S. I. V. Lavori, M. A. Zhuravlev, N. N. Chernov, T. N. Kostyleva, and L. N. Korobov.</p> <p>NOTES: This collection contains the theoretical and experimental research works and engineering studies on combustion processes and solid fuel gasification.</p> <p>CONTENTS: This collection concerns the theoretical and experimental study of the mechanism of the thermic method of analysis of carbon monoxide and benzene coal, the pilot plants used in this study are described. Reactions of coal combustion and coal oxidation methods, dissociation and conversion are discussed and their equilibrium constants of one in tables. The processes of methane oxidation by oxygen and synthesis and production by oxidizing natural gas with the subsequent reduction of oxidized products by carbons are described as to the effect of an oxygen carrier on the burning process or produced in the form of a solid fuel. The utilization of energy potential reserves and the combustion and gasification processes is also discussed along with the principles of combustion analysis, routes, control and intensification of physical and chemical processes as mentioned. References accompany all but the first article.</p> <p>Source of compilation:</p> <p>Lavori, F.V., V.A. Zhuravlev, T.N. Kostyleva, and T.N. Chernov. <i>Thermic Analysis of Coal</i>. Moscow: Gostekhizdat, 1956. 221 p.</p> <p>Chernov, T.N., and S.V. Kostyleva. <i>Effect of the Structure of Carbon Fibre</i>. Moscow: Naukova Dumka, 1956. 39 p.</p> <p>Chernov, T.N. <i>Thermodynamic Analysis of Methane Oxidation Induced by Carbons With Subsequent Reduction of Oxidized Products</i> = "Therm. anal. 12, pag. 36."</p> <p>Lavori, F.V., T.N. Chernov, and T.N. Kostyleva. <i>Experimental Study of the Process of Producing Synthesis Gas by Mutual Gas Oxidation Induced by Carbons With Subsequent Reduction of Oxidized Products by the Carbon in Fuel</i>. 26</p> <p>Aleksandrov, V.S., and G.A. Sharif. <i>Thermodynamic Study of the Process of Methane Conversion Induced by High Pressure by Steam and Carbon Black</i>. 66</p> <p>Lavori, F.V., and L.S. Zhitomirsky. <i>Study of the Thermodynamic Processes Induced by Oxidation in Combustion With the Subsequent Gasification of Coal</i>. 72</p> <p>Polyakova, A.P. <i>Experimental Study of the Effect of Inertive Air on the Process of Combustion of a Powdered Solid Fuel Stove</i>. 82</p> <p>Chernov, T.N., F.V. Lavori, T.N. Kostylev, N. N. Korobov, L. N. Korobov, and A.M. Kostenko. <i>Organic Glyceride From Carbon Monoxide and Steam</i>. 82</p> <p>Lavori, F.V., and N.A. Smirnov. <i>Organic Orthoesters From Carbon Monoxide and Steam</i>. 100</p> <p>Chernov, T.N. <i>Study of Kinetics of the Reduction of Iron Oxide by Carbon</i>. 105</p> <p>Balyash, O.N. <i>Experimental Study of Oxidative and Heat Recovery Process With Formation of a Liquid Fuel Spray in a Cylindrical Combustion Chamber Under Pressure</i>. 113</p> <p>Brazma, P. M. <i>Statistical Analysis of Chemical Reactions of the Combustion Process and of Carbon Gasification</i>. 127</p> <p>Lavori, F.V., and T.N. Chernov. <i>Analysis of the Process of Burning Coal in a Layer by the Method of Stalilude</i>. 133</p>		
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V'YUK, A., master

The joy of creation. Sov.profsoiuzy 7 no.18:28-29 8 '59.
(MIRA 13:2)

1. Semilukashevsky ogneupornyy zavod, Voronezhskaya oblast'.
(Machinery industry--Technological innovations)

VASIL'YEV, M.V.; V'YUKHINA, A.S.; DCRONENKO, Ye.P.; ZEBZIYEV, K.V.,
kand. tekhn. nauk; LATS, V.M.; PARFENOV, G.V.; POPOV,
V.Ye.; TROITSKIY, D.P.; FADDEYEV, B.V.; TSVETAYEVA, Z.N.;
ZURILLOV, L.Ye., kand. tekhn. nauk, otd. red.; MAKAROVA,
N.U., red.; PAL'MIN, M.Z., tekhn. red.

[Evaluation and the prospects of the development of the
mineral resources for ferrous metallurgy in Chelyabinsk area]
Otsenka i perspektivy razvitiia syr'evoi bazy chernoi metal-
lurgii Cheliabinskogo raiona. Sverdlovsk, AN SSSR, 1964. 67 p.
(MIRA 17:4)

ALEKSEYEV, A.A., inzh., red.; V'YUKOV, I.Ye., kand. tekhn. nauk, red.; GRABOVSKIY, V.A., kand. tekhn. nauk, red.; ZHITKOV, A.V., kand. tekhn. nauk, red.; NAUMOV, V.V., kand. ekon. nauk, red.; NEPENIN, Yu.N., kand. tekhn. nauk, red.; PUZYREV, S.A., kand. tekhn. nauk, red.; RYUZHIN, N.V., kand. tekhn. nauk, red.; SHAPIRO, A.D., kand. tekhn. nauk, red.; ELIASHBERG, M.G., doktor tekhn. nauk, red.

[Handbook for the papermaker in three volumes] Spravochnik bumazhnika v trekh tomakh. Moskva, Izd-vo "Lesnaii promyshlennost'." Vol.1. Izd.2., perer. i dop. 1964. 840 p.
(MIRA 17:8)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut tsellyulozno-bumazhnoy promyshlennosti.

V'YUKOV, I.Ye., inzh.

Speed regulation system for the drive motor of a papermaking machine. Bum.prom. 35 no.3:20-23 Mr '60.
(MIRA 13:6)

1. Byvshiy glavnyy energetik Sogezhskogo kombinata, aspirant TSentral'nogo nauchno-issledovatel'skogo instituta tsell'yuloznay i bumazhnay promyshlennosti.
(Papermaking machinery--Electric driving)

V'YUKOV, I.Ye., inzh.

Investigating the system of automatic control of the rotation
speed of engines by the frequency method. Trudy LTITSBP no.8:
169-181 '61. (MIRA 16:9)
(Automatic control) (Electric motors--Testing)

V^YUKOV, I. Ye.

Stabilization of the speed regulation system of a motor with
an electronic amplifier. Trudy VNIIB no.47:122-131 '61.
(MIRA 16:1)

(Papermaking machinery—Electric driving)

AMONENKO, V.M.; V'YUGOV, P.N.; GUMENYUK, V.S.

Thermal expansion of tungsten, molybdenum, tantalum, niobium,
and zirconium at high temperatures. *Toplofiz. vys. temp.* 2 no.
1:29-31 Ja-F '64. (MIRA 17:3)

1. Fiziko-tehnicheskiy institut AN UkrSSR.

V' YUKOV, V.N.

Mimic activity of sand flies in the burrows of the greater
gerbil. Zool. zhur. 43 no. 779-782 '54 (MIRA 1747)

1. Otdel bolezney z prirodnoy otechestv'ya Instituta epidemi-
ologii i mikrobiologii AMN SSSR, Moskva.

V'YUKOVA, N.

During a single year, Rabotnitsa 36 no, 12:16-17 D '58,
(MIRA 12:2)
(Moscow--Women--Employment)

V'YUKOVA, NATAL'YA

Aunt Polia. Rabotnitsa 37 no.11:7-8 II '59. (MIRA 13:2)
(Zemlianskaia, Pelageia Konstantinovna)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3

VYUKOVA, N.

The people have decided... Rabotnitsa 35 no.9:26-28 8 '57.
(MIRA 10:10)
(Germany, East--Description and travel)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3"

V'YUKOVA, N.

V'YUKOVA, N.

~~Three stars, Rabotnitsa 35 no.11:4 N '57.~~
~~(Women)~~

(MIRA 11:2)

V'YUKOVA, Natal'ya.

Mountaineers. Rabotnitsa 36 no.3:16-18 Mr '58.
(Dagestan--Women)

(MIRA 11:3)

V'YUKOVA, N.

Two graduation certificates. Rabotnitsa 35 no.1:20-21 Ja '57.
(MILRA 10:2)

(Technical education)

V'YUKOVA, R.N.; POLYANSKII, B.A.; METELKIN, D.P.

Pulmonary resection in tuberculosis. Probl. tub. 40 no.6:
38-42 '62 (MIRA 16:12)

1. . Iz Novosibirskogo pravtivetuberkuleznego dispansera
(zav. Legechnokhirurgicheskim otdeleniyem - kand. med. nauk.
R.N. V'yukova, glavnnyy vrach F. Kh. Grigorenko) i kliniki
obshchey khirurgii (zav. - dotsent B.A. Polyanskiy) Novosib-
irskego meditsinskogo instituta.

VYUKOVA, R. N.

Vyukova, R. N. --"Clinical Aspects and Treatment of Patients with Suppurative Tuberculous Pleuritis." State Tomsk Medical Inst imeni V. N. Molotov, Novosibirsk, 1955 (Dissertation for Degree of Doctor of Medical Sciences.)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

V' YUKOVA, R.N.

Treatment of tuberculous paraproctitis. Khirurgia no. 12:53-55
D' 55. (MIR 9:?)

1. Iz Novosibirskogo oblastnogo nauchno-issledovatel'skogo tuberkulernogo instituta (dir.-zaaluzheniyi vrach BSFR A.G.Aminina,
nauchnyy rukovoditel' doktor meditsinskikh nauk prof. S.Ye.Rabinovich)
(RECTUM, dis.
paraproctitis, tuberc.)
(ANUS, dis.
same)
(TUBERCULOSIS, GASTROINTESTINAL
paraproctium)

V'YUKOVA, R.N., kand.med.nauk:

Results of lung resection in patients with tuberculomas. Probl.
tub. 41 no.11:22-25 '6). (MIRA 17:9)

1. Iz protivotuberkulinoj dispansera Kirovskogo rayona (glavnnyy
vrach F.Kh.Grigurenko) Novosibirska.

BILAY, V.I. [Bilai, V.I.]; ZANEVICH, V.Ye. [Zanevych, V.IU.]; V'YUN, A.A.
[V'iun, A.A.]

Antibiotic properties of Penicillium L k. isolated from roots
of agricultural plants in the Ukraine, Mikrobiol.zhur. 21
no.2:35-39 '59. (MIRA 12:9)

1. Z Institutu mikrobiologii AN URSS.
(PENICILLIUM)

V'YUN, A.A.

~~Antibacterial properties of Diplococcus sp. No.16. Mikrobiol.zhur. 14 no.4:
50-57 '52.~~

1. Z Institutu mikrobiologii Akademii nauk URSR.

(Staphylococcus)

BILAY, V.I.; PIDOPLICHKO, N.N. [Pidoplichko, M.M.]; GUTYRYA, V.S. [Hutyria, V.S.];
BUKHALO, A.S.; VEN, A.A. [Ven, H.A.]; GALICH, P.N. [Halych, P.M.];
KOVAL', E.Z.; MAS'DYAN, V.Ya.; MIL'KO, A.A. [Mil'ko, O.O.]

Petroleum hydrocarbons as a source of carbon for microscopic
mycelial soil fungi. Mikrobiol. zhur. 27 no.2:3-10 '65.
(MIRA 18:5)

1. Institut mikrobiologii i virusologii AN UkrSSR i Institut
khimii vysokomolekulyarnykh soyedineniy AN UkrSSR.

MIKHAYLOVINA, A.A. [Myha:lovlina, A.O.]; YIYUN, A.A. [Viun, H.A.];
DYMOVICH, V.A. [Dymovych, V.O.]

Isolation and study of some substances from the mycelium of
Fusarium moniliforme, strain 2301. Mikrobiol. zhur. 23 no.2:
31-33 '61. (MIRA 14:7)

1. Institut organicheskoy khimii AN USSR i Institut mikrobiologii
AN USSR.
(ANTIBIOTICS) (FUSARIUM)

1. 08107-67 EMP(1)/EMT(1)/EMT(m)/FSS-2
ACC NR: AP(029755) REC: 43

SOURCE CODE: UR/0414/66/000/C02/0052/0000

AUTHOR: Babkin, V. S. (Novosibirsk); V'yun, A. V. (Novosibirsk); Kozachenko, L. S.
(Novosibirsk)

ORG: none

TITLE: Study of the effect of pressure on the normal burning velocity by the method of the initial section in a constant pressure bomb

SOURCE: Fizika gorenija i.vz pva, no. 2, 1966, 52-60

TOPIC TAGS: combustion, flame, burning velocity, hydrocarbon fuel, PRESSURE EFFECT

ABSTRACT: Experiments in a constant volume bomb were made of the effect of pressure on the normal burning velocity of stoichiometric mixtures of benzene, n-heptane, and isooctane with air at 1-16 atm and an initial temperature of 150C. It was found that a linear relationship exists between the expansion coefficient of the combustion products and the terminal explosion pressure. This relationship can be expressed by the approximate formula

$$E_i = 0.85 \frac{P_e}{P_i}$$

Card 1/2

UDC: 536.46

65

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00107-67

ACC NR: AP0629755

(p_i = initial pressure, p_e = terminal pressure). This formula permits the calculation of the normal burning velocity from the experimentally determined apparent flame speed and the terminal pressure. In all fuels tested, the normal burning velocity decreased with increasing pressure. The exponents in the relationship $S = p^n$ (S = normal burning velocity, p = pressure) ranged from -0.17 to -0.35 m for different fuels and pressure ranges. Orig. art. has: 11 formulas, 3 figures, and 1 table.

[PV]

SUB CODE: 21/ SUBM DATE: 06Aug65/ ORIG REF: 008/ OTH REF: 008

Card 2/2 mJ

AWASHKIN, I.A., kapitan 1 ranga; BARABOLYA, P.D., polkovnik yuridicheskoy sluzhby; VOLKOV, A.S., inzh.-kapitan 1 ranga; VOROB'IEV, A.P., kapitan 1 ranga; VASIL'YEV, I.V., kapitan 1 ranga zapasa; V'YUMENKO, N.P., kand.voyennye-morskikh nauk, kapitan 1 ranga; GENKIN, A.I., dotsent, kand.tekhn.nauk, inzhener-kontr-admiral; YEREMENKO, B.Ya., kapitan 1 ranga; ZVEREV, B.I., kand.istor.nauk, mayor; KAZANKOV, A.A., kapitan 1 ranga; KOZIN, K.K., kapitan 1 ranga zapasa; KOLYADA, N.I., kapitan 1 ranga zapasa; KULINICH, D.D., inzh.-kapitan 1 ranga; LOBACH-ZHUCHENKO, M.B., dotsent, inzhener-kapitan 2 ranga zapasa; MASHAROV, A.I., polkovnik zapasa; MYASISHCHEV, V.I., inzhener kontr-admiral; PETROV, L.G., kapiten 1 ranga v otstavke; PROKOP'IEV, V.M., kapitan 1 ranga; POZNAKHIREKO, A.S., kapitan 1 ranga zapasa;

(Continued on next card)

ANASHKIN, I.A.---(continued) Card 2.

PYASKOVSKIY, G.M., polkovnik; SINITSYN, N.I., polkovnik. Prinimali
uchastiye: ANDREYEV, V.V., kapitan 1 ranga; IVANOV, V.P., inzhener-
kapitan 2 ranga; CHERNOUS'KO, L.D., inzhener-kapitan 1 ranga;
SHIKANOV, Ye.P., inzhener-kapitan 2 ranga. FADEYEV, V.O., vites-
admiral zapasa, slavnnyy red.; GERNGROSS, V.M., kapitan 1 ranga zapa-
sa, red.; STAROV, N.N., kapitan 1 ranga v otstavke, red.; SOKOLOVA,
G.F., tekhn.red.

[Marine dictionary] Morskoi slovar'. Moskva, Voen.izd-vo M-va obor.
SSSR. Vol.2. O - IA. 1959. 440 p. (MIRA 12:12)
(Naval art and science--Dictionaries)
(Merchant marine--Dictionaries)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3

V'YUNENKO, N.P., kapitan 1-go ranga, kand.voyenno-morskikh nauk

Modern marine landing operations. Mor. sbor. 46 no.5:21-27 My '63.
(MIRA 17:1)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3"

V'YUNENKO, NIKOLAY PETROVICH

7AM/6
390
.V9

Chernomorskiy flot v Velikoy Otechestvennoy voyno (The Black
Sea Fleet in the Great Patriotic War) Moskva, Voyenizdat, 1957.
366 p. illus., diagrs., maps, ports, tables.

V'YUNENKO, Nikolay Petrovich, kapitan 1 ranga; MORDVINOV, Rostislav
Nikolsyevich, kapitan 1 ranga; TARASOV, I.A., redaktor; JEGATKOVICH,
G.M., redaktor; MEDNIKOVA, A.N., tekhnicheskiy redaktor

[Fleet in the Great Patriotic War; a brief military and historical
sketch] Voennye flotilii v Velikoi Otechestvennoi voine; kratkii
voenno-istoricheskii ocherk. Moskva, Voen.izd-vo M-va obor. SSSR,
1957. 270 p.
(World War, 1939-1945--Naval operations) (MLRA 10:9)

KRAUS, E.G.; RUBINSHTEYN, B.Sh.; V'YUNIK, M.V.

Operation of test samples of the PMVI-3 starter. Nauch. trudy
KNIUI no. 11;129-133 '62. (MIRA 17;7)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3

V'YUNKOV, S., inzh.-kapitan; TIN'KOV, L., inzh.-kapitan

Checking airplane sight. Av.i kosm. 46 no.1 67-72 Ja '64.
(MIRA 17:3)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3"

DASHKEVICH, L.L.; SURAZHSKIY, D.Ya.; USOL'TSEV, V.A.; AZHEL', M.Ye.; BOZHEVIKOV, S.N.; VORZHENEVSKIY, N.S.; MANUYLOV, K.N.; GLAZOVA, Ye.F.; KARPUSHA, V.Ye.; PROTOPOPOV, N.G.; SHADNIKA, Ye.N.; IGRUNOV, V.D.; NECHAYEV, I.N.; HESPALOV, D.P.; ILLARIONOV, V.I.; GLEBOV, F.A.; GLAZOVA, Ye.F.; KAULIN, N.Ya.; GOYSHIN, V.I.; GAVRILOV, V.A.; TIMOFEEV, M.P., retsenzent; YEFRENYCHEV, V.I., retsenzent; KRASOVSKIY, V.B., retsenzent; V'YUNNIK, A.P., retsenzent; STERNZAT, M.S., otv. red.; RUSIN, N.P., otv. red.; YASNOKORODSKAYA, M.M., red.; VOLKOV, N.V., tekhn. red.

[Instructions to hydrometeorological stations and posts] Nastavlenie gidrometeorologicheskim stantsiam i postam. Leningrad, Gidrometeoroizdat. No.3. Pt.3. [Meteorological instruments and observation methods used on a hydrometeorological network] Meteorologicheskie pribory i metody nabliudeniia, primenяemye na gidrometeorologicheskoi seti. 1962. 295 p. (MIRA 15:5)

(Continued on next card)

DASHKEVICH, L.L.--- (continued) Card 2.

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeoro-
logicheskoy sluzhby. 2. Glavnaya geofizicheskaya observatoriya
Nauchno-issledovatel'skogo instituta gidrometeorologicheskikh
priborov i Gosudarstvennogo hidrologicheskogo instituta (for
Dashkevich, Surazhskiy, Usol'tsev, Azbel', Eozhevikov,
Vorzhenevskiy, Manuylov, Glazova, Karpusha, Protopopov, Shadrina,
Igrunov, Nechayev, Bespalov, Illarionov, Glebov, Glazova, Kaulin,
Goryanin, Gavrilov). 3. Komissiya Glavnogo upravleniya hidrome-
teorologicheskoy sluzhby pri Sovete Ministrov SSSR (for Nechayev,
Usol'tsev, Timofeyev, Yefremychev, Krasovskiy, V'yunnik)
(Meteorology)

V'YUNOV, B. F.

"The Role of Meteoric Fluxes under the Conditions of Magnetic Storms and Polar Aurora,"
Iz. Ak. Nauk SSSR, Ser. Geograf. i Geofiz., No. 4, 1945.

V'YUNOV, B. F.

"The Role of Meteor Streams in the Causation of Magnetic Storms and Polar
Aurorae," Izv. Akad. Nauk SSSR, Ser. Geogr i geofiz., 9 (4); 294-315, 1945

Full translation - D 151109, 1 Feb 55

Vyunov, (B. F.), Friedrichsohn (O. A.), & Vertogradova (Mme O. N.). *Bolezni plodovih plemen (жирови и чернота пак.)* [Fruit crop diseases (chlorosis and black canker).]—87 pp., 6 figs., 1 diag., Saratov, пандит. симп. Ст. [Saratoff Fruit Exp. Sta.], 1938.

The first part of this book (pp. 5-80) comprises an account by N. F. Vyunov of his studies on the lime-induced chlorosis [R.A.M., ix, p. 43; x, p. 876; xvii, p. 472] of apple, plum, raspberry, *Acer tartarium*, *Syringa vulgaris*, and *Corylus avellana* in the Saratoff Region of the U.S.S.R. The disease affects fruit trees mainly in the south and south-east of the Union and is attributed to insufficient intake of iron. Control measures

recommended are the introduction of iron salts and sulphuric acid into the soil, the planting of resistant varieties, and the avoidance of alkaline fertilizers. *Convolvulus arvensis* can be used as an indicator plant.

In the second part (pp. 87-90) O. A. Friedrichsohn and Mme O. N. Vertogradova describe the results of their field and laboratory investigations on the black canker of apple and pear, caused by *Sphaeropeltis* Peck [*Physalospora obtusa*; ibid., xvii, p. 46]. The disease occurs in the Saratoff Region on both old and young trees in the form of a leaf spot, fruit rot, and bark necrosis. The last-named is the

most prevalent and harmful form, attacking weak trees intensively, and developing mostly through wounds, especially cracking of the bark on the south and south-west side of the tree. On rare occasions bark necrosis was caused by *Coniothyrium piricola* [C. Lindner; ibid., xvii, p. 187], while *Cytopora capitata* [ibid., xi, p. 740], *Phoma* [*Aecochytrium*] *pirina* [ibid., xvi, p. 106], and *Schizophyllum commune* [S. commune; ibid., xvii, p. 46] were sometimes present as secondary invaders. The main period of infection by *Physalospora obtusa* extended from the beginning of spring to the end of autumn, and the incubation period varied between 15 and 21 days from April to mid-August and between 23 and 27 days from mid-August to October. Resistance tests showed that although the local varieties of apples varied in their susceptibility to the disease, none of them was entirely resistant. Watering the orchardia at a rate of 400 cu. m. per hect., repeated three times, arrested the development of the infection. Satisfactory control was obtained by scraping the wounds, disinfecting them with 5 per cent. iron sulphate, 1 per cent. copper sulphate, or 3 per cent. sodium fluoride, and subsequently applying an oil paint, and by spraying with Bondeaux mixture in summer or with iron sulphate (5 or 8 per cent.) in early spring or late autumn.

V'YUNOV, B.F., kandidat tekhnicheskikh nauk [deceased]

Natural losses of salt in the case of open storage mounds. Trudy VSMII
no.1:72-91 '54.
(Salt—Storage)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3"

KOPYRIN, I.A.; V'YUNOV, P.P.; PLASTININ, B.G.

Investigating the reduction process of native-alloy cast iron.
(MIRA 16:11)
Stal' 23 no.10:884-887 O '63.

1. Chelyabinskij nauchno-issledovatel'skiy institut metallurgii i
Orsko-Khalilovskiy metallurgicheskiy kombinat.

V'YUNOV, Sergey Fedorovich, prof.; FEDOROV, N.A., red.; IZHboldina,
S.I., tekhn.red.

[Apricot] Abrikos. Izd.2., tip. Stalingrad, Stalingradskoe
knizhnoe izd-vo, 1960. 21 p.
(MIRA 14:2)
(Apricot)

VYUNOV, S. F.

USSR/Cultivated Plants - Fruits. Berries.

M-6

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91835

Author : V'yunov, S.F.

Inst :

Title : Peculiarities in the Formation of Flower and Vegetative
Buds in Apricots.

Orig Pub : Sad. i ogorod, 1957, № 2, 52-54.

Abstract : In 1955 the author studied the accumulation of starch in
the buds of fruit bearing apricot tree. In proportion to
the growth of the apricot shoot, at first a single bud
grew and took shape in the stipule of its young leaves.
Then, in the stipule of its lateral scales another bud
or two would be deposited the growth of which depended on
the conditions of nutrition. The lateral buds exceed the
central bud in size. Usually the central bud is the vege-
tative one and the lateral buds are the flowering ones.
No starch was found in the upper part of the apricot shoot

Card 1/2

VAKULIN, A.A.; VYUNOV, S.F.; GORIN, T.I.; IVASHCHENKO, P.S.; KOMOVA, A.G.; KORNEYEV, V.A.; KOROSTELEVA, M.Ya.; LOBACHEV, A.Ya.; LASHMANOV, I.Ya.; MALYCHENKO, V.V.; MOROZOVA, A.M.; PASHIN, I.A.; PROSVIROV, A.S.; ROZHKOVA, N.V.; YUROVA, N.F.; FEDORENKO, V.P.; TSEKHMISTRENKO, P.Ye.; SHEVCHENKO, I.S.; FEDOROV, N.A., red.; IZHBOLDINA, S.I., tekhn.red.

[Brief manual on the cultivation of fruits, berries, and grapes and the management of nurseries in Stalingrad Province] Kratkii spravochnik po plodovo-iagodnym kul'turam, vinogradu i pitomnikam dlia Stalingradskoi oblasti. Stalingrad, Stalingradskoe knizhnoe izd-vo, 1960. 215 p. (MIRA 14:3)

1. Stalingrad (Province) Upravleniya sel'skogo khozyaystva.
(Stalingrad Province--Fruit culture)

ACCESSION NR: A9500737

SOURCE: Ref. zh. Biologija. Svoinyj tom, Abs. 4615

AUTHOR: V'yunov, S. F.

TITLE: Photosynthesis productivity in wood plants

CITED SOURCE: Tr. Volgografsk. s.-kh. in-ta, v. 16, 1964, 261-265

TOPIC TAGS: wood, plant, photosynthesis, measurement method

TRANSLATION: A field method of calculating photosynthesis productivity of wood plants is described. Essentially the method consists of determining the amount of photosynthesis products accumulating in a certain part of a growing runner over a day. In experiments on trees, runners located close to one another are rinsed and left 2 days accumulations. The other is rinsed and left 1 day. These are cut and rinsed runners are cut off. The weight of each tree may be calculated from the weight of

Page 1/2

1 9370-55

ACCESSION NR: AR5009357

carbon paper tape. It is desirable that number cuttings be 10 cm. in length and have 5 to 6 leaves. The fingered numbers are left on the tree for a 3 day period. The amount of photosynthesis productivity can be measured based on the weight difference between original and final leaf weights.

Surface of the experiments will be the ground, the trees and the soil.

8.00 Tapes in control data, no. 1000.

SUT CODE: LS SNCL: 00

Card 2/2

V'YUNOV, V.; SHIMANOVA, Z.; GORBACHEV, I.

Leather substitutes made of nitrocellulose. Pozh.delo 5 no.4:
11:12 Ap '59. (MIRA 12:5)

(Nitrocellulose)
(Leather substitutes)

V'YUNOV, V.I.; SHIMANOVA, Z.YE

Explosion hazard of peat dust. Torf.prom.38 no.2:20-22 '61.
(MIRA 14:3)

1. Pozharno-ispytatel'naya stantsiya Ispolkomu Mosobzoveta.
(Dust explosion)
(Peat)

V'YUNOV, V.I.; SHIMANOVA, Z.Ye.

Fire hazard in peat briquetting plants. Torf. prom. 39 no.4:
20-22 '61.
(MIRA 14:9)

1. Pozharno-ispytatel'naya stantsiya Ispolnitel'nogo komiteta
Moskovskogo oblastnogo soveta.
(Peat industry—Safety measures)

SHAPOSHNIKOV, L.V., doktor biolog.nauk, prof.; GOLOVIN, O.V., kand.biolog.
nauk; SOROKIN, M.G., kand.biolog.nauk; TARAKANOV, A.D., starshiy
prepodavatel'. Prinimali uchastye: V'YUNOV, V.N.; SOKOLOV, P.P..
inzh.-ryboved; VIKTOROV, G.S., tekhn.red.

[Animal world of Kalinin Province] Zhivotnyi mir Kalininskoi
oblasti. Kalinin, Kalininskoe knizhnoe izd-vo, 1959. 459 p.
(MIRA 13:10)

1. Nachal'nik Kalininskogo oblastnogo upravleniya okhotnich'yego
khozyaystva (for V'yunov).
(Kalinin Province--Vertebrates)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3

YOUNG A. M. /a/

Electrodeposition of metals from solutions of chlorides

100-2

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3"

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3"

V'YUNOVA, M.Ya.

KOCHERGIN, V.P.; NIMVITSKAYA, T.A.; V'YUNOVA, M.Ya.

Electrochemical tinning of sheet metals using halide solutions as
a base. Zhur.prikl.khim. 30 no.1:97-103 Ja '57. (MLRA 10:5)

I.Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov.
(Tin plating)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420005-3"

KOCHERGIN, V.P.; NIMVITSKAYA, T.A.; V'YUNOVA, M.Ya.

Electrochemical tin plating from chloride solutions. Zhur.prikl.
khim. 29 no.1:59-63 Ja '56. (MLRA 9:5)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov.
(Tin plate)

5(3)

NAME: Zakharov, B. A., Ivanov, V. I.,
Krylova, G. A., V'yunova, N. G. SOV/2o-122-5-18/56

TITLE: Molecular Homogeneity and Properties of Cellulose
(Molekul'arnaya gomogennost' i svoystva tsellyulozy)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 5,
pp 814 - 816 (USSR)

ABSTRACT: For some time the opinion was prevalent that the molecular weight of cellulose as a highly molecular compound (Refs 1-4) amounted to about 500 000 (Ref 5). However, viscosimetric measurements and the retardation of oxydative degradation yielded a figure of about 1, 600 000 for this weight (Refs 6-8). Recently this was confirmed (Refs 9-11). As early as 1939, strange and hardly explicable observations were made (Refs 12-13): the properties of strength of the natural cellulose fibres became obvious in a solid state at an average molecular weight (\bar{M}) of about 32 000 and increase rapidly with an increase of \bar{M} up to 113 000; then the increase of strength is

Card 1/4

Molecular Homogeneity and Properties of Cellulose

307/20-122-5-18/56

constantly reduced up to 160 000 above which it remains constant. Furthermore it was discovered that cellulose is heterogeneous with respect to the length of chain molecules (Refs 14, 15). Therefore that above figure of molecular weight must be considered as an average value depending undoubtedly on the method of measuring. A general idea of the heterogeneity of cellulose is offered by the average coefficient of heterogeneity

$$\bar{U} = \frac{\bar{M}_{\text{weight}}}{\bar{M}_{\text{num}}} - 1, \text{ in which } \bar{M}_{\text{weight}} \text{ and } \bar{M}_{\text{num}} \text{ are the}$$

molecular weights: average by weight and numerical average, respectively. In modern studies the heterogeneity of cellulose is described more completely and more accurately by means of functions of integral and differential calculus (Ref 16). At present some tests are conducted in order to estimate the changes in heterogeneity in different processes of solation and production and to combine the heterogeneity

Card 2/4

Molecular Homogeneity and Properties of Cellulose

SOV/2a-122-5-10/56

with the quality of the cellulose products. This, however, was rather complicated and afforded little hope of success. The authors wanted to tackle the task of specifying the problem of chain molecule length. The more precise concept and meaning of homogeneity of cellulose served them well in this work. According to their opinion, two characteristics of homogeneity, which can be determined on the curve of mass distribution, are of decisive importance; a) the degree of homogeneity (mono-dispersion), which expresses the physical nature of the phenomenon. This characteristic is defined by the height and basis of the maximum on the curve. b) the other characteristic is determined by the degree of polymerization(P), which corresponds to the maximum. As a consequence, the super-molecular structure of cellulose (opposite position of molecules and inter-molecular bonds) can and must be determined by the degree of molecular homogeneity. The authors proved this in experiments. Nitric ethers produced from cellulose in finished

Card 3/4

Molecular Homogeneity and Properties of Cellulose

SOV/20-122-5-18/56

products were fractioned according to the method of precipitation (Ref 18). Examples are given and explained by means of curves (FIG 1, curves 1-4). There are 1 figure and 10 references, 4 of which are Soviet.

ASSOCIATION: Institut organic choy imeni N.D.Zelinskogo Akademii Nauk SSSR (Institute of Organic Chemistry imeni N.D. Zelinskij of the Academy of Sciences USSR)
PRESENTED: June 3, 1958, by P.A.Rebinder, Academician
SUBMITTED: May 25, 1958

Card 4/4

5(3)

AUTHORS:

Ivancv, V. I., Zakharov, B. A.,
Krylova, G. A., V'yunova, N. G.

S07/20-123-4-32/53

TITLE:

A Chemical Method of Homogenizing Cellulose With Respect to
Molecular Weight (Khimicheskiy metod gomogenizatsii tsell-
yulozy po molekulyarnomu vesu)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 4,
pp 691 - 692 (USSR)

ABSTRACT:

In an earlier report by the authors (Ref 1) their theoretical ideas that the strength of the cellulose products is closely connected with the homogeneity of the cellulose with respect to the length of the chain molecules, was proved. From the data in publications it may be concluded that during the individual production stages (Refs 3-6) no considerable homogeneity of cellulose is obtained. The authors have investigated the absorption of acids by cellulose from aqueous solution. Cotton cellulose was used for these experiments as well as chemical (sulfate) wood pulp. It was treated with HNO_3 (concentration 0.2 n at 92°) (cotton cellulose for 1 hour,

Card 1/3

A Chemical Method of Homogenizing Cellulose With Respect SOV/20-123-4-32/53
to Molecular Weight

chemical wood pulp for half an hour). Furthermore the cotton cellulose was treated under the same conditions with HCl. Figures 1 and 2 show the results obtained: the cotton cellulose (Fig 1, Curves 1 and 2) is to a large extent heterogeneous with respect to its molecular weight. The treatment of cotton cellulose led to a degradation of long chain molecules with a definite homogenization (Curve 4), whereas the effect of nitric acid was accompanied by a considerable homogenization (Curve 3). The treatment of the sulfate chemical wood pulp according to the method of the institute (IOKh AS USSR) mentioned under Association leads to a physical-chemical homogenization of the cellulose. The maximum on the mass distribution curve is at $P = 850$ (Fig 2, Curve 2). HNO_3 causes the displacement of this maximum into the low-molecular range, i.e. $P = 220$. The results obtained make it possible to draw the conclusion that HNO_3 may be used for the homogenization mentioned in the title. The high degree of homogenization can be reached at a desired degree of polymerization by the selection of the conditions of the combined physico-chemical homogenization (concentration, temperature, duration). Thus,

Card 2/3

A Chemical Method of Homogenizing Cellulose With Respect SOV/2o-123-4-32/33
to Molecular Weight

an appropriate strength of various cellulose products can
be obtained. There are 2 figures and 11 references, 3 of which
are Soviet.

ASSOCIATION: Institut organiceskoy khimii im. N. D. Zelinskogo Akademii nauk
SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy
Academy of Sciences, USSR)

PRESENTED: July 11, 1958, by V. A. Kargin, Academician

SUBMITTED: June 20, 1958

Card 3/3

V'YONOVA, N. G.

Dissertation: "An Investigation of the Composition of the Light Fraction from the Cracking Products of the Middle Neutral Fraction of the Tar from Baltic Oily Shales." Cand. Sci., Institute of Mineral Fuels, Acad. Sci. USSR, 29 June 54. (Vechernaya Moskva, Moscow, 18 Jun 54)

SO: SUX 318, 23 Dec 1954

V'YUNOVA, N.G.

Preparation of trans-butene-1,4-diol from 1,3-butadiene. Izv.
AN SSSR. Ser.khim. no.3:567-568 Mr '64. (MIRA 17:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

ASKALONOV, I.N.; MLYANSKIY, V.A.; V'YOMYSHOV, N.G.

Plastic covering of the bone end by a bone-blood mass a...
capron cover in an experimental amputation of the extremity.
Eksper. khir. i anest. 9 no.3:57-60 My-Je '64.

(MIRA 18:3)

1. Kafedra operativnoy khirurgii s topograficheskoy anatomiyyey
(zav. - prof. I.N. Askalonov) Kuybyshevskogo meditsinskogo
instituta.

LEYTES, F. L., kand. med. nauk; LEMPERT, B. L.; V'YUROVA, Z. D.

Case of aortic aneurysm in Marfan's syndrome. Terap. 34 no.1:
(MIRA 15:7)
106-109 '62.

1. Iz Moskovskoy rogodskoy bol'nitsy No. 58 (glavnnyy vrach -
dotsent Ye. Ya. Khesin)

(ARACHNODACTYLY) (AORTIC ANEURYSMS)

V'YUSHIN, V.M.

Some problems of the development of potato growing in Yaroslavl
Province. Lokl. na nauch. konf. 1 no.4:132-137 '62. (MIRA 16:8)
(Yaroslavl Province—Potatoes)

225]. V'yushina, A.

Sovkhoz "Ptichnoye". (Zapisala I Lit. Obrabot. N. Tumanova. M.), Profizdat,
1954. 36s. s Ill. 17sm. (Rasskazy Novatorov). 10.000 EKZ. 40k.-
(54-56463)p 636.5.083st(47.31)•338.1 Sov:636.5(47.31)

PATYUKHIN, Mikhail Dmitriyevich, mashinist elektrovoza; VAL'SHTEYN, G.,
redaktor; V'YUSHINA, L., redaktor; OYSTRAKH, V., tekhnicheskij
redaktor

[Free assignment of locomotives in underground transportation]
Koltsevaya exda na podzemnom transporte. Alma-Ata, Kazakhskoe
gos. izd-vo, 1956. 13 p. (MLRA 9:10)

1. Shakta No.17 imeni Kalinina tresta Leninugol' kombinata
"Karagandaugol'" (for Patyukhin)
(Mine railroads)

NEKRASOV, Mikhail Il'ich, mekhanik pod'yema; IOFFE, S., redaktor; V'YUSHINA, L.
redaktor; OYSTRAKH, V., tekhnicheskiy redaktor

[Automatic control of belt conveyers] Avtomaticheskoe upravlenie
lentochnym pod'yemom. Alma-Ata. Kazakhskoe gos. izd-vo, 1956. 14 p.
(MLRA 9:10)

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